

## SEQUENCE PROTOCOL

10&gt; SunGene GmbH &amp; Co.KGaA

20&gt; Transgenic expression cassettes for the expression of nucleic acids in carbohydrate-storing sink tissues of plants

30&gt; AE20020414

40&gt;

41&gt;

60&gt; 8

70&gt; PatentIn Ver. 2.1

10&gt; 1

11&gt; 1300

12&gt; DNA

13&gt; Vicia faba

20&gt;

21&gt; promoter

22&gt; (1)..(1300)

30&gt; 1

```
attgtctct agatgtaggt gtgggttttat cgaactgagt taacagactt tgtgtgttct 60
atttcttt tgtcttgaat tattgttact gtcattattgt gtgttatttg atttaacaag 120
aaactatc tgatttaaca agtaaagcaa gttattatag acatcttttc caacatctgt 180
cgtgagaa acaaaattat aacttggaag acttgaatta aggtgggtgc ttgaaaaaat 240
atacttc gtcagtgcac catgttgcag taaatgtgca acagggttaca ccccttcatt 300
aatgttca atttcagaca gagatttggc acaataagtt gcagtaaagtg tgtaacatgt 360
caccattc cagctttata ctttttgaga caaagaatta gtgcaatcaa ttataggtat 420
gaaactta tttttctcat tagttgggtca gctgtactat ttgtatgata gtttaaatat 480
agttggat cttttatgtt ataatgccat ctttcttcc taattctctc ttttctctc 540
tatctcaa tctttctatt attcactatt gttttcgtga ttgaaatttt aatccaacaa 600
aaatgaaa acgcaacaca attgataaaa tacatcaaac ttaagttaaa ggtgtaagtt 660
agtcctga tttagtataa aattttatct atcaacatta taatttatta attttaaatt 720
ttattatt tatatattta caaatacaat ttctgattta aatataataa ataacattaa 780
aatatatt ttaaataaca ttatataaat tatgtgacgt aacaccaaag gattattgtc 840
atcaatat cagccataa attatgggat caactatata aatttgaaga ggataaaaag 900
aggaaaaa aatattaaat ataggaaaaa actgtttttt taaaaggact aaagttttgt 960
atcaaaaat caaaatcaaa attgaaatta aaatttcatt tttatattaa aaacaaaaaa 1020
agcttgag ttttaattta aacacaagtc aatattcttc tccaagtgtg aaaactcaca 1080
cggcgctt tttaaaggaa aaaatgactt ttcacgaccc gcgtttggag gtgctgtaac 1140
ggcaataa gtcacgaaag agcgtgcgtg gtagtacaaa aaaaactaaa atccagaagc 1200
aaaagctc tgattcgatg ccacatcata ttctttttca acactagtaa gagtacagt 1260
gaatacaa aacaccacct ctattataga gagaagaggt 1300
```

110&gt; 2

111&gt; 1360

112&gt; DNA

113&gt; Vicia faba

120&gt;

121&gt; promoter

122&gt; (1)..(1300)

120&gt;

121&gt; 5'UTR

122&gt; (1301)..(1357)

120&gt;

121&gt; misc\_feature

&lt;222&gt; (1358)..(1360)

&lt;223&gt; ATG-Start-Codon

&lt;400&gt; 2

```

gattgtctct agatgtaggt gtgggttttat cgaactgagt taacagactt tgtgtgttct 60
ttatttcttt tgtcttgaat tattgttact gtcattattgt gtgttatttg atttaacaag 120
taaaactatc tgatttaaca agtaaagcaa gttattatag acatcttttc caacatctgt 180
cccgtgagaa acaaaattat aacttggaag acttgaatta aggtggtgtc ttgaaaaaat 240
aatatacttc gtcagtgcga catgttgagc taaatgtgca acagggttaca ccccttcatt 300
gcaatgttca atttcagaca gagatttggc acaataagtt gcagtaaatg tgtaacatgt 360
tgcaccattc cagctttata ctttttgaga caaagaatta gtgcaatcaa ttataggtat 420
gagaaactta tttttctcat tagttggtca gctgtactat ttgtatgata gtttaaatat 480
caagttggat catttatgtt ataatgccat ctttccttcc taattctctc tatttctctc 540
attatctcaa tctttctatt attcactatt gttttcgtga ttgaaatttt aatccaacaa 600
ataaatgaaa acgcaacaca attgataaaa tacatcaaac ttaagttaaa ggtgtaagtt 660
cgagtcctga tttagtataa aattttatct atcaacatta taatttatta attttaaatt 720
ttttattatt tatatattta caaatataat ttctgattta aatataataa ataacattaa 780
aatatatttt ttaaataaca ttatataaat tatgtgacgt aacaccaaatt gattattgtc 840
atatcaatat cagccataa attatgggat caactatata aatttgaaga ggataaaaag 900
aaggaaaaaa aatattaaat ataggaaaaa actgtttttt taaaaggact aaagttttgt 960
atatcaaaat caaaatcaaa attgaaatta aaatttcatt tttatattaa aaacaaaaaa 1020
aaagcttgag ttttaatttt aacacaagtc aatattcttc tccaagtgtg aaaactcaca 1080
atcggcgctt tttaaaggaa aaaatgactt ttcacgaccc gcgtttggag gtgctgtaac 1140
gtggcaataa gtcacgaaag agcgtgcgtg gtagtacaaa aaaaactaaa atccagaagc 1200
aaaaagctcg tgattcgatg ccacatcata ttctttttca acactagtaa gactacagtg 1260
agaatacaa aacaccacct ctattataga gagaagaggt acaatacaaa caatcaaagc 1320
ctgtgagtg tgtgagtgag tgagagaaat tccaaccatg

```

&lt;210&gt; 3

&lt;211&gt; 1582

&lt;212&gt; DNA

&lt;213&gt; Vicia faba

&lt;220&gt;

&lt;221&gt; promoter

&lt;222&gt; (1)..(1300)

&lt;220&gt;

&lt;221&gt; 5'UTR

&lt;222&gt; (1301)..(1357)

&lt;220&gt;

&lt;221&gt; transit\_peptide

&lt;222&gt; (1358)..(1582)

&lt;400&gt; 3

```

ttgtctct agatgtaggt gtgggttttat cgaactgagt taacagactt tgtgtgttct 60
ttttcttt tgtcttgaat tattgttact gtcattattgt gtgttatttg atttaacaag 120
aaactatc tgatttaaca agtaaagcaa gttattatag acatcttttc caacatctgt 180
cgtgagaa acaaaattat aacttggaag acttgaatta aggtggtgtc ttgaaaaaat 240
ataacttc gtcagtgcga catgttgagc taaatgtgca acagggttaca ccccttcatt 300
aatgttca atttcagaca gagatttggc acaataagtt gcagtaaatg tgtaacatgt 360
taccattc cagctttata ctttttgaga caaagaatta gtgcaatcaa ttataggtat 420
gaaactta tttttctcat tagttggtca gctgtactat ttgtatgata gtttaaatat 480
agttggat catttatgtt ataatgccat ctttccttcc taattctctc tatttctctc 540
tatctcaa tctttctatt attcactatt gttttcgtga ttgaaatttt aatccaacaa 600
aatgaaa acgcaacaca attgataaaa tacatcaaac ttaagttaaa ggtgtaagtt 660
gtcttga tttagtataa aattttatct atcaacatta taatttatta attttaaatt 720
tattatt tatatattta caaatataat ttctgattta aatataataa ataacattga 780
tatattt ttaaataaca ttatataaat tatgtgacgt aacaccaaatt gattattgtc 840
caatat cagccataa attatgggat caactatata aatttgaaga ggataaaaag 900

```

```

agggaaaaaa aatatttaaat ataggaaaaaa actgtttttt taaaaggact aaagttttgt 960
atatcaaaat caaaatcaaaa attgaaatta aaatttcatt tttatattaa aaacaaaaaa 1020
aaagcttgag tttaatttta aacacaagtc aatattcttc tccaagtgtg aaaactcaca 1080
atcggcgctt tttaaaggaa aaaatgactt ttcacgaccc gcgtttggag gtgctgtaac 1140
gtggcaataa gtcacgaaag agcgtgctg gtagtacaaa aaaaactaaa atccagaagc 1200
taaaagctcg tgattcgatg ccacatcata ttctttttca acactagtaa gactacagtg 1260
tagaatacaa aacaccacct ctattataga gagaagaggt acaatacaaa caatcaaagc 1320
tctgtgagtg tgtgagtgag tgagagaaat tccaattatg gcttccatga caatgcggtt 1380
tcatccaaat tccaccgccg taaccgaatc cgttcctcgc cgtggctccg tttacggatt 1440
catcggttac agatcctcgt cgttggtcgt ccgaacgaac gttatcaagt atcgttctgt 1500
taagcgtaat ctggaattta ggaggagaag cgctttctct gtgaagtgtg gttctggtta 1560
tgaagcgaag cagaaagcca tg 1582

```

> 4

> 26

> DNA

> Artificial sequence

>

> Description of the artificial sequence:  
Oligonucleotide primer

> 4

attgtctct agatgtaggt gtgttt

26

> 5

> 24

> DNA

> Artificial sequence

>

> Description of the artificial sequence:  
Oligonucleotide primer

> 5

atggaagcc atggttgaat ttct

24

> 6

> 27

> DNA

> Artificial sequence

>

> Description of the artificial sequence:  
Oligonucleotide primer

> 6

xtgatcc atggctttct gtttcgc

27

> 7

> 225

> DNA

> Vicia faba

>

> transit\_peptide

> (1)..(225)

>

> CDS

> (1)..(225)

> 7

gct tcc atg aca atg cgg ttt cat cca aat tcc acc gcc gta acc 48  
Ala Ser Met Thr Met Arg Phe His Pro Asn Ser Thr Ala Val Thr

5

10

15

gaa tcc gtt cct cgc cgt ggc tcc gtt tac gga ttc atc ggt tac aga 96  
 Glu Ser Val Pro Arg Arg Gly Ser Val Tyr Gly Phe Ile Gly Tyr Arg  
                   20                                  25                                  30

tcc tcg tcg ttg ttc gtc cga acg aac gtt atc aag tat cgt tct gtt 144  
 Ser Ser Ser Leu Phe Val Arg Thr Asn Val Ile Lys Tyr Arg Ser Val  
                   35                                  40                                  45

aag cgt aat ctg gaa ttt agg agg aga agc gct ttc tct gtg aag tgt 192  
 Lys Arg Asn Leu Glu Phe Arg Arg Arg Ser Ala Phe Ser Val Lys Cys  
                   50                                  55                                  60

ggt tct ggt aat gaa gcg aaa cag aaa gcc atg 225  
 Gly Ser Gly Asn Glu Ala Lys Gln Lys Ala Met  
                   65                                  70                                  75

<210> 8  
 <211> 75  
 <212> PRT  
 <213> Vicia faba

<400> 8  
 Met Ala Ser Met Thr Met Arg Phe His Pro Asn Ser Thr Ala Val Thr  
                   1                                  5                                  10                                  15

Glu Ser Val Pro Arg Arg Gly Ser Val Tyr Gly Phe Ile Gly Tyr Arg  
                   20                                  25                                  30

Ser Ser Ser Leu Phe Val Arg Thr Asn Val Ile Lys Tyr Arg Ser Val  
                   35                                  40                                  45

Lys Arg Asn Leu Glu Phe Arg Arg Arg Ser Ala Phe Ser Val Lys Cys  
                   50                                  55                                  60

Gly Ser Gly Asn Glu Ala Lys Gln Lys Ala Met  
                   65                                  70                                  75